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Generic V03H2-1 OBDII Bluetooth 2.0 Diagnostic Scanner

User Manual

1. Introduction

The Generic V03H2-1 is an OBDII Bluetooth 2.0 diagnostic scanner designed to read and clear vehicle error codes. This device connects to your vehicle's On-Board Diagnostics (OBDII) port and communicates wirelessly via Bluetooth with a compatible smartphone or tablet application. It supports a wide range of OBDII protocols, enabling comprehensive vehicle system analysis.



Image 1.1: Generic V03H2-1 OBDII Bluetooth 2.0 Diagnostic Scanner, angled view.

Key Features:

- Hardware Version: v1.5
- Communication Method: Bluetooth 2.0
- Main Control Chip: St
- Interface: Standard OBDII 16-pin
- Supports multiple OBDII protocols for broad vehicle compatibility.

2. Setup Instructions

Follow these steps to set up your V03H2-1 OBDII Diagnostic Scanner:

1. **Locate the OBDII Port:** The OBDII port is typically located under the dashboard on the driver's side of your vehicle. Refer to your vehicle's owner's manual if you cannot find it.
2. **Connect the Scanner:** With the vehicle's ignition off, firmly plug the V03H2-1 scanner into the OBDII port. Ensure a

secure connection.



Image 2.1: The 16-pin OBDII connector of the diagnostic scanner.

3. **Turn On Vehicle Ignition:** Turn your vehicle's ignition to the 'ON' position (do not start the engine). The scanner's indicator lights should illuminate, indicating power.
4. **Download a Compatible App:** On your smartphone or tablet, download a compatible OBDII diagnostic application from your device's app store. Many free and paid options are available (e.g., Torque Lite/Pro for Android, Car Scanner ELM OBD2 for iOS/Android).
5. **Pair via Bluetooth:**
   - Go to your device's Bluetooth settings.
   - Scan for new devices.
   - Select the device named 'OBDII' or similar (the exact name may vary).
   - If prompted for a PIN, try '1234' or '0000'.
   - Once paired, open your chosen OBDII diagnostic app.
6. **Configure App Settings:** Within the app, navigate to its settings and select 'Bluetooth' as the connection type and choose the paired OBDII device.

3. Operating Instructions

After successful setup and pairing, you can begin using the V03H2-1 scanner to diagnose your vehicle:

1. **Establish Connection:** Open your OBDII diagnostic app. The app should automatically attempt to connect to the scanner. Look for an indicator within the app that confirms a successful connection to the ECU (Engine Control Unit).
2. **Read Diagnostic Trouble Codes (DTCs):** Navigate to the 'Read Codes' or 'DTCs' section of your app. The scanner will retrieve any stored trouble codes from your vehicle's ECU. These codes indicate specific issues detected by the vehicle's system.

3. **View Live Data:** Many apps allow you to view real-time sensor data from your vehicle, such as engine RPM, vehicle speed, coolant temperature, fuel system status, and more. This can be useful for monitoring vehicle performance.
4. **Clear Diagnostic Trouble Codes (DTCs):** If you have resolved an issue or wish to reset the 'Check Engine' light, navigate to the 'Clear Codes' or 'Reset ECU' function in your app. ***Warning:*** *Clearing codes without addressing the underlying problem will likely result in the codes reappearing. Only clear codes after necessary repairs have been made.*
5. **Exit:** When finished, disconnect the app from the scanner, turn off your vehicle's ignition, and then remove the V03H2-1 scanner from the OBDII port.

Supported OBDII Protocols:

The V03H2-1 scanner supports the following standard OBDII protocols:

- SAE J1850 PWM (41.6 KBaud)
- SAE J1850 VPW (10.4 KBaud)
- ISO9141-2 (5 baud init, 10.4 KBaud)
- ISO14230-4 KWP (5 baud init, 10.4 KBaud)
- ISO14230-4 KWP (fast init, 10.4 KBaud)
- ISO15765-4 CAN (11-bit ID, 500 KBaud)
- ISO15765-4 CAN (29-bit ID, 500 KBaud)
- ISO15765-4 CAN (11-bit ID, 250 KBaud)
- ISO15765-4 CAN (29-bit ID, 250 KBaud)

4. Maintenance

Proper maintenance ensures the longevity and reliable operation of your V03H2-1 scanner:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners, solvents, or abrasive materials, as these can damage the casing or internal components.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures. Avoid environments with high humidity.
- **Handling:** Handle the device with care. Avoid dropping it or subjecting it to strong impacts. Ensure the OBDII connector pins are not bent or damaged.

5. Troubleshooting

If you encounter issues with your V03H2-1 scanner, try the following troubleshooting steps:

- **Scanner Not Powering On:**
  - Ensure the scanner is firmly plugged into the vehicle's OBDII port.
  - Verify the vehicle's ignition is in the 'ON' position (engine off).
  - Check your vehicle's fuse box for any blown fuses related to the OBDII port (consult your vehicle's manual).
- **Bluetooth Pairing Failure:**
  - Ensure Bluetooth is enabled on your smartphone/tablet.
  - Make sure the scanner is powered on.
  - Forget the device in your Bluetooth settings and try pairing again.
  - Try the default PINs '1234' or '0000'.
  - Restart your smartphone/tablet.

- **App Not Connecting to ECU:**
  - Ensure the app's settings are configured to use Bluetooth and the correct OBDII device.
  - Verify that the scanner is successfully paired via Bluetooth with your device.
  - Try a different compatible OBDII app to rule out app-specific issues.
  - Ensure your vehicle supports the OBDII protocols listed in this manual.
- **Inaccurate or No Data:**
  - Confirm the app is fully connected to the ECU.
  - Ensure your vehicle's ignition is on.
  - Some data parameters may not be supported by all vehicles or apps.

6. Specifications

Hardware Version	v1.5
Communication Method	Bluetooth 2.0
Main Control Chip	St
Interface	Standard OBDII 16-pin
Working Voltage	9V ~ 16V
Working Current	35 mA
Standby Current	25 mA
Operating Temperature	-40 °C to 85 °C
Operating Humidity	Less than 60%
Product Dimensions	45 x 25 x 75 mm
Package Dimensions	66 x 100 x 25 mm
Package Weight	45 g
Material	ABS

7. Warranty Information

This product is covered by a standard manufacturer's warranty. Please refer to the retailer or your purchase documentation for specific warranty terms and conditions, including duration and coverage details. Keep your proof of purchase for any warranty claims.

8. Customer Support

For technical assistance, troubleshooting beyond this manual, or general inquiries, please contact the retailer where you purchased this product. You may also refer to the manufacturer's website for additional support resources, if available.

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